**Decision Modeling for Public Health**

**Foundations Module**

Case study of decision modeling public health: reading guide

Case study citation:

Eskander A, Marqueen KE, Edwards HA, Joshua AM, Petrella TM, de Almeida JR, Goldstein DP, Ferket BS. To ban or not to ban tanning bed use for minors: A cost-effectiveness analysis from multiple US perspectives for invasive melanoma. *Cancer*. 2021;127(13):2333-2341. PMID: 33844296.

Please reflect on the following 12 questions as you read through the case study article. We will use these questions to guide small group discussions.

# STUDY DESIGN

1. **What was the study question? Which options were compared? What are the pros and cons of these different options?**
2. **What was the perspective of the analysis? What kind of decision-maker would be the consumer of this study?**
3. **What was the target population? Why was this population selected?**
4. **What was the time horizon for the analysis?**

# MEASURING EFFECTIVENESS

1. **What were the health-related outcomes and how were they valued?**
2. **Which data sources were used to inform health-related outcomes?**

# MEASURING COST

1. **What were the economic outcomes? Which resources and costs were included and how were they measured?**
2. **Which data sources were used to inform cost estimates?**

# RESULTS AND IMPLICATIONS

1. **What were the main results?**
2. **How was uncertainty handled?**
3. **How confident are you in the results? Why?**
4. **Are there any other considerations you would take into account for policy decision-making?**